PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 5 : H04Q 7/04, H04B 7/26 — A1

(11) International Publication Number: WO 94/30022

(43) International Publication Date: 22 December 1994 (22.12.94)

(21) International Application Number: PCT/EP94/01854

(22) International Filing Date: 7 June 1994 (07.06.94)

(30) Priority Data:
MI93A001267 15 June 1993 (15.06.93) IT

(71) Applicant: SIEMENS TELECOMUNICAZIONI S.P.A. [IT/IT]; SS11 Panada Superiore Km. 158, I-20060 Cassina de' Pecchi (IT).

(72) Inventors: BRIONI, Massimo; Via A. Moro, 4, I-29012 Caorso (IT). CANESI, Massimiliano; Via Cilea, 3, I-20096 Pioltello (IT). COLOMBO, Giulio; Via Prato Bello, 36, I-22030 Lipomo (IT). MORINI, Luigi; Via Procaccini, 10, I-29100 Piacenza (IT). ZAMBARDI, Maurizio; Via Sirio, 3/A, I-20060 Cassina de' Pecchi (IT).

(81) Designated States: CN, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

Published
With international search report.
Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

(54) Title: SIGNALING PROCESSOR FOR DIGITAL MOBILE RADIO SYSTEMS

(57) Abstract

There is described a processor for signaling generated by transmission measurements included in a base radio station controller (BSC) of the pan-European mobile radio system (GSM®). The processor comprises a first microprocessor connected, through a dual access read and write memory, to a second microprocessor (DSP) and also interfaced with numerical signaling lines and a processor which manages the radio resources. The first microprocessor manages levels 1 and 2 of the signaling protocol LAPD and transfers to the DSP the level 3 messages which concern the transmission measurements of power and quality of the radio signal and of distance between the connected points. The DSP writes said messages in a dynamically managed RAM and at the same time processes the messages received to take back-messages comprising Handover decisions and indications for Power Control of mobile equipment.